

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002357**Date Inspected:** 26-Dec-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** Office, OBG 8AW, OBG 7BW, OBG 7EE, L**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Office**

Resume logging backlog of reports into PMIV. Also attend to report writing and project documentation. Also reviewed and signed backlog of ZPMC reports and Notices of Inspection in ABF Satellite office.

**OBG 8AW**

Base Metal surfaces of the internal "U" Rib Stiffeners and Upper Floor Beam Diaphragms, FL-2-1, Upper Corner Units and Chevron Connection assemblies were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Profile amplitude was 69-79um.

**OBG 7BW**

A cursory inspection was performed on the internal and external undercoated surfaces dry-spray was evident as well as shadow through, holidays and contaminants in the applied coating.

**OBG 8AE**

A cursory inspection was performed on the internal and external undercoated surfaces dry-spray was evident as well as shadow through, holidays and contaminants in the applied coating.

**Sub-Assemblies**

Base Metal surfaces of approximately 290 pieces of Splice Plates, Shim Plates and Channel Iron were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied.

**OBG 7EE**

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## SOURCE INSPECTION REPORT

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Internal undercoated surfaces were tested for adhesion and all but 2 locations were in excess of 4Mpa. The failed areas were discovered to have the dollies improperly affixed and were misaligned. ABF QA Bill Oak directed ZPMC to affix additional dollies for re-testing.

### Lift 1 West

Internal repairs to damaged areas of previously applied undercoat are currently in process by ZPMC personnel. Repair areas of the Bottom and Side Plate Stiffeners and Lower Chevron Assemblies as well as Diaphragms were observed from Panel Points 8.5, 9.0, 10 to the end weld seam. Some areas also have other additional materials and components obstructing the surfaces from view and repairs.

### Sub-Assemblies

Base Metal surfaces of 230+- pieces of Shim Plates GGL-MQ-1475 code were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

No relevant conversations on this date..

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Peterson,Art	QA Reviewer

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